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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assistant Commissioner for Patents  
Washington, D.C. 20231

Re: Our file: 8738/1  
Applicant: Marc Schneiderman  
Serial No.: 09/838,806  
Filing Date: 04/20/01  
Title: Method and Apparatus for Providing Parallel Execution of Computing Tasks in Heterogeneous Computing Environments Using Autonomous Mobile Agents

Office:  
Examiner:

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AUG 10 2001  
Technology Center 2100

Sir:

Enclosed for filing in the United States Patent and Trademark Office is the following:

1. Transmittal of Information Disclosure Statement
2. Information Disclosure Statement
3. Form PTO-1449
4. Copies of references from Form PTO-1499
5. Transmittal Sheet
6. Postcard Receipt

CONDITIONAL PETITION

If any extension of time is required for the submission of the above-identified items, Applicant requests that this be considered a petition therefor. Please charge any additional charges or any other charges relating to this matter to the deposit account of the writer, **Account No. 06-2143**. A duplicate copy of this letter is enclosed.

Date

8/6/01

Respectfully submitted,

Michael R. Friscia

Registration No. 33,884

Wolff & Samson

5 Becker Farm Road

Roseland, New Jersey 07068-1776

Tel: (973) 533-6599

Fax: (973) 436-4499

enc.

I hereby certify that this correspondence is being deposited with the United States Postal Service, First Class Mail, postage prepaid, to the Assistant Commissioner for Patents, Washington, D.C. 20231 on 8/6/01.

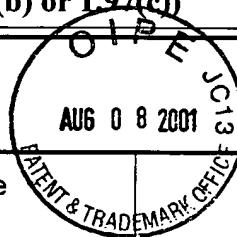
By:

Michael R. Friscia

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**  
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.  
8738/1

In Re Application Of: Marc Schneiderman



Serial No.  
09/838,806

Filing Date  
04/20/01

Examiner

Group Art Unit  
2183

Title: Method and Apparatus for Providing Parallel Execution of Computing Tasks in Heterogeneous Computing Environments Using Autonomous Mobile Agents

Address to:  
Assistant Commissioner for Patents  
Washington, D.C. 20231

**37 CFR 1.97(b)**

1.  The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application; within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or before the mailing date of a first Office Action on the merits, whichever event occurs last.

**37 CFR 1.97(c)**

2.  The Information Disclosure Statement submitted herewith is being filed after three months of the filing of a national application, or the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or after the mailing date of a first Office Action on the merits, whichever occurred last but before the mailing date of either:
  1. a Final Action under 37 CFR 1.113, or
  2. a Notice of Allowance under 37 CFR 1.311,whichever occurs first.

Also submitted herewith is:

a certification as specified in 37 CFR 1.97(e);

OR

the fee set forth in 37 CFR 1.17(p) for submission of an Information Disclosure Statement under 37 CFR 1.97(c).

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**  
**(Under 37 CFR 1.97(b) or 1.97(c))**

Docket No.  
8738/1

In Re Application Of: **Marc Schneiderman**

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**Title: Method and Apparatus for Providing Parallel Execution of Computing Tasks in Heterogeneous Computing Environments Using Autonomous Mobile Agents**

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**Payment of Fee**

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- A check in the amount of \_\_\_\_\_ is attached.
- The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. \_\_\_\_\_ as described below. A duplicate copy of this sheet is enclosed.
  - Charge the amount of \_\_\_\_\_.
  - Credit any overpayment.
  - Charge any additional fee required.

**Certificate of Transmission by Facsimile\***

I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (Fax. No. \_\_\_\_\_) on \_\_\_\_\_  
(Date)

*Signature*

*Typed or Printed Name of Person Signing Certificate*

\*This certificate may only be used if paying by deposit account.

*Signature*

Michael R. Friscia  
Registration No. 33,884  
Wolff & Samson  
5 Becker Farm Road  
Roseland, NJ 07068-1776  
Tel: (973) 533-6599  
Fax: (973) 436-4499

**Certificate of Mailing by First Class Mail**

I certify that this document and fee is being deposited on 8/6/01 with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

*Signature of Person Mailing Correspondence*

Michael R. Friscia

*Typed or Printed Name of Person Mailing Correspondence*

Dated:

8/6/01

CC:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Marc Schneiderman

Filed: 04/20/01

Serial No.: 09/838,806

For: Method and Apparatus for Providing Parallel Execution of Computing Tasks in Heterogeneous Computing Environments Using Autonomous Mobile Agents



Docket No. 8738/1

Assistant Commissioner for Patents  
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. § 1.56, Applicant submits herewith patents, publications or other information of which they are aware, listed on form PTO-1449, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose. Legible copies of all items listed on form PTO-1449 accompany this information disclosure statement.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 CFR 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists. The filing of this information disclosure statement shall not be construed as an admission against interest in any manner.

It is respectfully requested that the Examiner indicate consideration of the cited references by returning a copy of the attached form PTO-1449 with initials or other appropriate marks.

The person making this statement is the inventor who signs below.

Date: 7/27/01

  
\_\_\_\_\_  
By: Marc Schneiderman  
Inventor of the above-identified  
application

730919

## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)

8738/1

Application Number

09/838,806

Applicant(s)

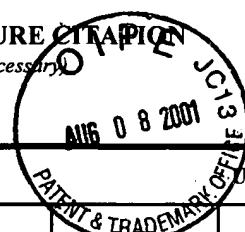
Marc Schneiderman

Filing Date

04/20/01

Group Art Unit

2183



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Technology Center 2100

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER		NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,125,402	09/26/00	Nagarajayya, et al.	709	304	06/16/97
		6,065,040	05/16/00	Mima, et al.	709	202	12/03/97
		6,065,039	05/16/00	Paciorek	709	202	11/04/97
		6,055,562	04/25/00	Devarakonda, et al.	709	202	05/01/97
		6,016,393	01/18/00	White, et al.	395	683	02/10/97
		6,009,456	12/28/99	Frew, et al.	709	202	07/30/97
		6,009,455	12/28/99	Doyle	709	201	04/20/98
		5,790,431	08/04/98	Ahrens, Jr., et al.	364	569	11/20/95

## FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Fukada, et al., "A Hierarchical Mapping Scheme for Mobile Agent Systems," 6th IEEE Workshop on Future Trends of Distributed Computing Systems (FTDCS '97).
	Gray, "A Flexible and Secure Mobile-Agent System," A Thesis, Dartmouth College, June 30, 1997.
	Gray, "A Flexible and Secure Mobile-Agent System," Dr. Dobb's Journal, March 1997.
	Gray, et al. "Mobile Agents: The Next Generation in Distributed Computing," 2nd AIZU International Symposium on Parallel Algorithms/Architecture Synthesis (pAs '97) pp. 8-24.

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		Applicant(s) <b>Marc Schneiderman</b>	
		Filing Date <b>04/20/01</b>	Group Art Unit <b>2183</b>
*EXAMINER INITIALS <i>O I P E</i>	OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>		
	Jain, et al., "A Comparison of Mobile Agent and Client-Server Paradigms for Information Retrieval Tasks in Virtual Enterprises," Telcordia Technologies, Inc. Marnik, et al. "Design Issues in Mobile-Agent Programming Systems," IEEE Concurrency, July-September 1998, pp. 52-61. Skiniry, et al. "A Hands-On Look at Java Mobile Agents," IEEE Internet Computing, July/August 1997, pp. 21-30. Lange, "Java Aglet Application Programming Interface (J-AAPI) White Paper - Draft 2," IBM Tokyo Research Laboratory, February 19, 1997.		
	Mitsubishi Electric ITA, "Mobile Agent Computing," January 19, 1998. Puliafito, et al. "An Analytical Comparison of the Client-Server, Remote Evaluation and Mobile Agents Paradigms," Third International Symposium Mobile Agents, October, 1999.		
	Ranganathan, et al., "Network-Aware Mobile Programs" 1997 USENIX Annual Technical Conference, Anaheim, California, January 6-10, 1997. Samaras, et al."Mobile Agent Platforms for Web Databases: A Qualitative and Quantitative Assessment," Department of Computer Science, University of Cyprus.		
	Sundaresan, et al. "Java Paradigms for Mobile Agent Facilities" Wong, et al. "Java-Based Mobile Agents," Communications of the ACM, Vol. 42. No. 3, March 1999, pp. 92-102.		
EXAMINER		DATE CONSIDERED	
<b>*EXAMINER:</b> Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			